

Interactive comment on “Error propagation in spectrometric functions of soil organic carbon” by Monja Ellinger et al.

Anonymous Referee #2

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This study addressed a very important issue in soil spectroscopy field. The data uncertainty is a major factor to affect calibration process. I have some general comments on this study: 1. In the introduction part, it needs more literature reviews on the data uncertainty effect on the modelling process, to enhance awareness of this issue, especially soil data uncertainty from lab chemistry analysis. Because so far not many people even noticed about it, it has been often ignored. 2. For the experimental design of this study, i suggest author should focus on effect of data uncertainty from lab chemistry analysis, how this uncertainty can effect calibration and validation. because this is the most important part of the issue. Consequently, authors only mentioned about this effect a bit in results and discussion part. It would be a very important study in soil spectroscopy community if author could deeply discuss this effect. Because

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most research project does not allow all soil samples to measure 3 replicate, due to budget limitation. Therefore, the dataset in this study is a treasure. 3. I have attached a small but very good discussion note from NIR news, hope authors can get some ideas about this issue(this note is not reviewer's publication).

Please also note the supplement to this comment:

<https://www.soil-discuss.net/soil-2018-42/soil-2018-42-RC2-supplement.pdf>

Interactive comment on SOIL Discuss., <https://doi.org/10.5194/soil-2018-42>, 2019.

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